

CBC 2.0 Post Conference Workshop Agenda

Session-1 (9:30 AM to 1 PM)		
Time	Duration	Topic
9.30 -9.45 AM	15 min	Introducing DNA Sequencing Technology
9.45 - 10.30 AM	45 min	Analysis of Next Generation Sequencing of genomic DNA
10.30 - 11 AM	30 min	Variant Calling
11 - 11.30 AM	30 min	Break (Refreshments)
11.30 - 12.30 PM	60 min	Summarizing Variations
12.30 PM - 1 PM	30 min	Interpreting the biological significance of variants.
1 PM - 2 PM	Lunch	
Session-2 (2:00 PM to 5:30 PM)		
2 - 2.10 PM	10 min	Introduction to the 3D-Macromolecular portal at IBDC and data retrieving APIs.
2:10 - 2.40 PM	30 min	Number of experimental structures and known mutations for a protein of interest and prioritization over binding sites, secondary structures, and buried/unburied regions.
2.40 - 3 PM	20 min	Pathogenicity and disease association of given mutations from a particular region.
3 - 3:30 PM	30 min	Break (Refreshments)
3.30 - 4.30 PM	60 min	Analysis over a single structure to look for changes in local interactions, interactions with ligands, the role of water, and their surface characterization details.
4.30 - 5:30 PM	60 min	Perform the ensemble analysis and interpretation of the role of protein flexibility to understand the mutation impact in more detail.